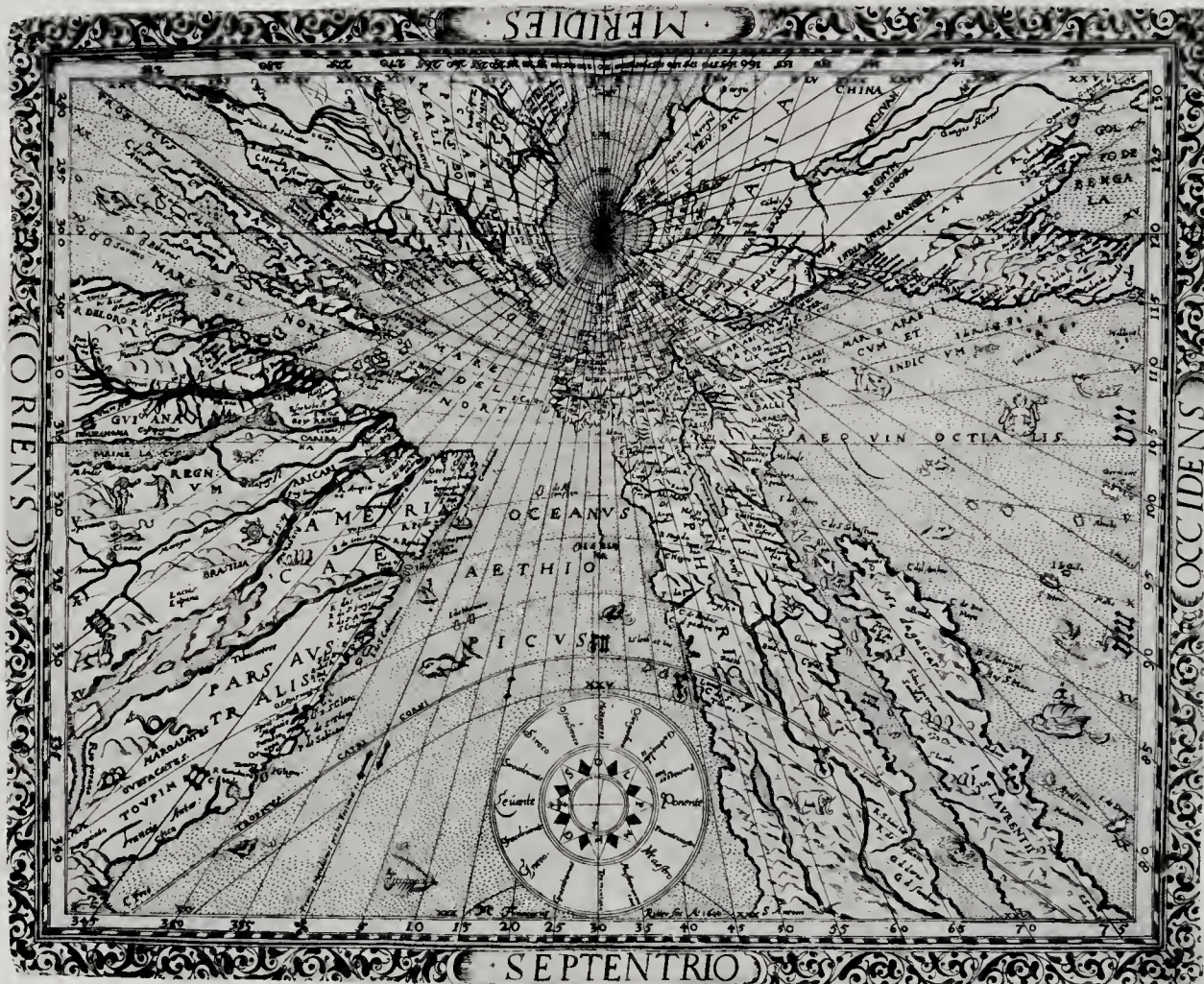


Mapline

A quarterly newsletter published by
The Hermon Dunlap Smith Center for the History of Cartography
at The Newberry Library

Number 13 March 1979

Patricia Moore, Editor



Early Gnomonic Projection by D. Woodward

Courtesy The Newberry Library

Why is the gnomonic projection so-called? A recent acquisition to the collection of the Newberry Library may give the answer. It is a map of the western hemisphere on the gnomonic projection, the earliest such use known to us, in M. Franciscus Ritter's Speculum

Orbis (Nürnberg: Paul Fürstens, 1610). Ritter was a Nuremberg mathematician, and his book describes how to make sundials. The art of dialling, as it was called, was to become a favorite pastime in scholarly circles, and was to become an frequent part of the education of gentlefolk.

(Continued)

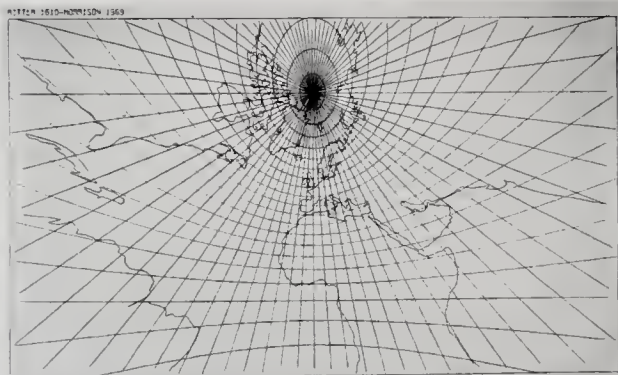
Every sundial has its gnomon (derivation: Greek, one who knows) the pin, bar, or triangular plate of metal that casts its shadow on the marked surface of the dial to indicate not only the time of day, but in the more sophisticated models, the time of year. If a triangular gnomon is placed on this gnomonic projection such that the base of the triangle is along the central meridian (here passing through Germany) from the North Pole to 45°N., the origin of the projection, the shadow so cast when the sundial is properly oriented will not only tell the time of day from 6 a.m. to 6 p.m., but the point of the shadow will also fall along the Tropic of Capricorn on midwinter's day, along the Equinoctial Line at the equinoxes, and on the Tropic of Cancer on midsummer's day. Thus on March 21 this year, the Vernal Equinox, the point of the sun's shadow will trace a straight line throughout the day along the equinoctial line (here represented as the Equator).

If the sundial were used in Nuremberg, for which it was designed, it would not only tell the time of day in Nuremberg, but also where it is noon on Earth at that time. Thus, if the point of the shadow fell on VIII, or 8 a.m., it would be noon in Arabia.

This is only one quality of the gnomonic projection. Another is that great circles are represented as straight lines. For those iggraphicate* readers who have not had the benefit of a cartographic education, a great circle is the largest circle that can be drawn on the globe, and an arc of a great circle drawn between two places traces the shortest route on the globe between the two. All meridians and the Equator are great circles, and hence shown as straight lines on the projection illustrated, but any straight line drawn on this projection would represent the shortest distance on the Earth.

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Although the engraver's name is not on the map, its style is so similar to the signed engraved title page in Ritter's book that it can be attributed to P. Troeschel, a Nuremberg engraver. His model for both engraving style and the content of the map was Italian.



A simulated modern equivalent of the gnomonic map illustrated, centered on 45°N. Courtesy Joel L. Morrison, University of Wisconsin, Madison.

*A new word, derived from "graphicacy," a word coined by two British geographers, Balchin and Coleman, to represent the graphic equivalent of numeracy and literacy.

Drazniowsky honored

Dr. Roman Drazniowsky, AGS Map Curator, has been awarded the *Charles P. Daly Medal* of the American Geographical Society. The medal is given for "valuable and distinguished geographical service." Its first recipient, in 1902, was Robert E. Peary, discoverer of the North Pole.

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Dr. Drazniowsky's most outstanding service to the American Geographical Society was in maintaining the research integrity of the collection. He kept the library and map collection active during the search for a solution to the society's financial problems.

He took part in visits to possible new sites for the collection and in conferences that led to the recent transfer of the A.G.S. library and maps to the University of Wisconsin-Milwaukee, where he is now curator of the collection.

Born in Austria, Dr. Drazniowsky received his Ph.D. in geography at Innsbruck University. In addition to his work at the American Geographical Society, he was a lecturer at Columbia University's School of Library Science. He has been map curator of Columbia University, a lecturer at the City College of New York and, for 11 years, a contributing editor of *The Canadian Cartographer*.

Among numerous other writings and edited works, he compiled and was editor of, the ten-volume *Index to Maps and Books in Periodicals*, a widely used reference work in geography. Dr. Drazniowsky developed and was principal investigator for a cartographic information system for the International Bank for Reconstruction and Development. [We regret, no picture.--ED]

Name Changes

PRESENT

Internationale Coronelli-Gesellschaft
Für Globen-und Instrumentenkunde
Postfach 68
A-1041 Wien, Schwindgasse 6
Austria

FORMER

Coronelli-Weltbund Der Globusfreunde

PRESENT

Robert Douwma (Prints & Maps) Ltd.
93 Great Russell Street
London WC1B 3QL
England

FORMER

Weinreb + Douwma Ltd.

McManis new GR editor

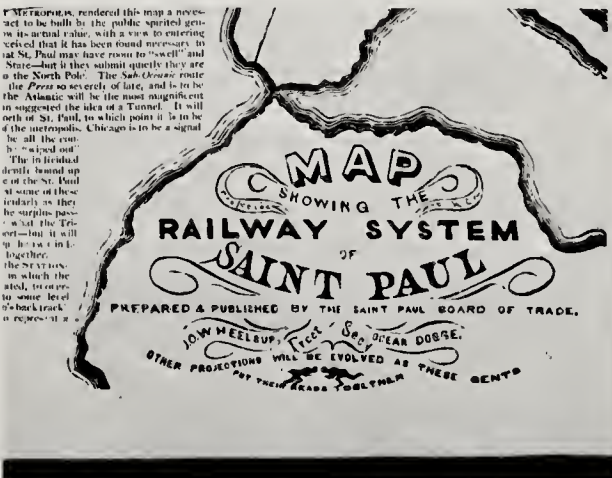


Courtesy of American Geographical Society

Dr. Douglas R. McManis has been appointed editor of the *Geographical Review*, the scholarly journal of the American Geographical Society.

Dr. McManis succeeded Dr. Sarah K. Myers as editor. Dr. Myers, now director of the A.G.S., was editor from 1973 until late 1978, when Dr. McManis assumed the position.

Dr. McManis received his Ph.D. in geography at the University of Chicago. He has taught at several universities, most recently at Teachers College, Columbia University. He has been a geographical consultant to the publishing firms of Alfred A. Knopf and Random House, the Encyclopedia Britannica Educational Corporation and McGraw-Hill's film division. In addition to historical geography, his professional and research studies include the history of cartography and geographical education.



Cartouche on a map appearing in a Midwestern newspaper, published as a reaction to a map published by the *St. Paul Press*, January 1871. That is to say--there is more than one way of evolving a map projection--and as many reasons.

Chicago Map Society

The Chicago Map Society will sponsor a special series of lectures on 19th century mapmakers of Chicago, starting in April.

Lectures on five individuals or firms active in Chicago in the 19th century were commissioned by the Society in the summer of 1977, as a result of findings of the Midwest Map Catalog Project headquartered at The Newberry. During the catalog project thousands of maps of the midwest were cataloged, and hundreds of mapmakers were unearthed. It was decided to do biographical studies on a number of these mapmakers, chosen for their national prominence as well as for their representation of the various trades involved in the mapmaking business in Chicago at the time.

The following talks are planned:

"Alfred T. Andreas," Michael Conzen, University of Chicago.

"Charles Shober," Grant Dean, Chicago Historical Society.

"George Franklin Cram," Gerald Danzer, University of Illinois at Chicago Circle.

"Rufus Blanchard," Marsha Selmer, University of Illinois at Chicago Circle.

"Rand, McNally," Peter McQueen, Rand, McNally & Co.

The talks will be given at the regular monthly meetings usually held the fourth Thursday of each month at The Newberry. They are open to the public, but a \$1.00 refreshment fee is asked for non-members. The only talk presently scheduled is Alfred T. Andreas, which will be given at the May 24th meeting. Other talks are planned for the 1979-80 year. Gerald Jones, Program Director, Chicago Map Society, 60 W. Walton, Chicago, IL 60610, should be consulted for further information concerning scheduling.

A Directory of 19th Century Mapmakers of Chicago, also commissioned in the summer of 1977, is currently being compiled by Society members. Over 600 firms and individuals have thus far been identified with the aid of city directories and the Midwest Map Catalog. Further information on the directory is available from Marsha L. Selmer, Map Librarian, University of Illinois at Chicago Circle, P.O. Box 8198, Chicago, IL 60680.

The directory is planned for publication in 1980. It is hoped the mapmakers' lectures will be published.

CHRONICLE

Chronicle/Chronique, the newsletter of the Canadian National Commission for Cartography (NCC), is now being published at the Department of Geography, Carleton University. Information, cartographic news items, and subscription requests should be sent to the editor. Cost of a subscription of 4 issues a year is \$6.00.

Neil G. Grant
Department of Geography
Carleton University
Ottawa, Ontario
Canada K1S 5B6

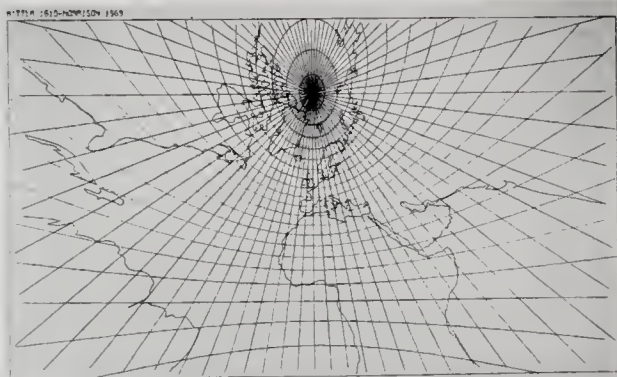
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Weinreb + Douwma Ltd.

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Exhibitions

Manuscript Maps and Charts, Robert Douwma (Prints & Maps) Ltd., Great Russell Street store. Maps from Napoleon's administration in Italy, plans from the Board of Ordnance at the Tower of London, and the 1806 C.F. Beautemps-Beaupré atlas of the Yugoslavian coast featured. Illustrated catalog, *Catalogue 20*, Robert Douwma (Prints & Maps) Ltd., 93 Great Russell Street, London WC1B 3QL. 13 November-2 December 1978.

Great Maps & Atlases of the Bancroft Library, Bancroft Library, San Francisco. Further information available from A. Philip Hoen, The Bancroft Library, University of California-Berkeley, Berkeley, CA 94720. 12 March-9 June.

Exhibits at Museum of Art, Ann Arbor: *John Montresor in America, 1755-1778*, prepared by Douglas Marshall, Map Curator, Clements Library; *Decorative Imagery in Maps*, prepared by the Museum Practices Program; *Military Mapping in the 18th Century*, prepared by the staff of the Clements Library. Exhibit bulletin available from Ann Arbor Museum of Art, University of Michigan, Ann Arbor, MI 48109. 20 April-26 May.

Die Welt Auf Alten Karten, Ausstellung in Zusammenarbeit mit Scandivian Airlines System und Citibank, Burgerratssaal des Casinos, Bern, and Pavillon Werd der Schweizerischen Bankgesellschaft, Zurich. Illustrated catalog by Carl. E. Lindh, published by the Swiss Banking Society. For further information write Ulla Ehrensvärd, The Royal Library, Box 5039, S102 41 Stockholm 5, Sweden. 30 September-18 November 1978.

The Famous voyage of Sir Francis Drake, 1577-1580, Museum of Our National Heritage, Lexington, MA. Sixteenth-century documents, manuscripts, maps, prints, and memorabilia from The British Library and other institutions to commemorate the Anniversary of Drake's landing on the California coast 400 years ago. Sponsored by a grant from the National Endowment for the Humanities. Opening lecture, "Drake and the World Encompassed," by John H. Parry, Gardiner Professor of Oceanic History and Affairs, Harvard. Illustrated catalog, \$6.00 (75¢ U.S. postage), available from the Museum of Our National Heritage, P.O. Box 518, 33 Marret Road, Lexington, MA 02173. 28 January-15 May, Museum of Our National Heritage; 10 June- , Oakland Museum.

Obituaries

Historians of cartography and cartographers worldwide are saddened by the death of Brigadier Gardiner, who, after a career in the Ordnance Survey of Great Britain, became the Keeper of Maps at the Royal Geographical Society. He was a familiar figure at international scholarly meetings, and his mild, courteous, and kind manner will be greatly missed.

Chicago map enthusiasts have lost a fine colleague with the death of Christopher Legge. During his career with the British Foreign Service, he was posted to Fiji, and had the uncomfortable distinction of being included in the *Guinness Book of Records* for attaining the world's highest recorded temperature, a feat that caused constant amazement to new members of the Chicago Map Society and the Caxton Club, whose meetings he attended regularly. Also, as curator of Chicago Museum of Natural History, he introduced Mapline to polynesian stickcharts, featured in our first issue (March 1976).

Creature of the Quarter by Michael Kaplan



Our featured bastie for the spring is the dragon, a member of the snake family. In the Western world the dragon has had a bad press. Tiamit, Goddess of Chaos--who represented the evil principle to the ancient Mesopotamians--was a dragon. Dragons did not fare any better in Greece or Egypt either. St. Augustine likened the Devil to the dragon and as a result the medieval knights conducted an unending pogrom against the poor creatures.

In Asia the dragons were better off. To the Chinese and Japanese dragons were symbols of good fortune. Taoism regards the dragon as symbolizing a deified natural force. In classical China a dragon was the emblem of the Imperial family.

The dragon is usually portrayed as having a serpent-like body covered with scales, from two to four legs ending in talons, and a barbed tail. Some dragons have bat-like wings, and others are wingless. Dragons have been much used in heraldry and as battle-standards.

The dragon in our picture comes from the *Ebstorf* map (ca. 1250). This thirteenth century world map provides us with a spiritual rather than a tangible geography. The world is a disc floating in the cosmic sea. Jerusalem is at the center, and outside the grace-redeemed realms of Europe the world teems with marvels; some wondrous, others fearsome. The whole is embraced by and enveloped in Christ whose head appears at the top of the map, His outstretched hand on either side, and His feet at the bottom. The *Ebstorf* map is a perfect representation of the medieval Christian image of the world.

The medieval world-view has now been replaced by the so-called "modern scientific outlook" and, as a result, dragons are extinct. Know-it-all biologists asserted that dragons were a biological impossibility. This caused those few dragons who had survived the knightly slaughterers to fall into a deep and terrible depression and die. In the disenchanted modern world the dragon simply lost the will to live.

* * * * *

Michael Kaplan is on the staff of the Newberry Library.

Contributors

J.B. Post, A. Hoover, N.G. Grant, E. Thatcher, A. Draper,
L. Magazine, D. Marshall, L. Story, W.K. Elias, C. Gold,
A. Hughes, T. Campbell.

Recent Publications

"A celebration of cities." -- *American heritage*. -- vol. 30, no. 2 (February/March 1979), p. 14-[25]
[These immaculate and minutely detailed aerial
[bird's-eye] views flattered the resident and
attracted the investor.]

Dictionary of mapmakers / R.V. Tooley ; preface by Dr. Helen Wallis. -- Hertfordshire : Map Collector Publications, Ltd., 1979 (£48.50 before June 1st; thereafter £61.00, Map Collector Publications Ltd., P.O. Box 53, Church Street, 48 High Street, Tring, Herts, HP23 5BH England)

The discovery and settlement of North America, 1500-1865 : a cartographic perspective / George Kish. -- New York : Harper & Row, 1978. -- (Harper & Row Media Program [203 slides + 16p. booklet]) (\$210.00 Harper & Row Publishers, Inc., 10 East Fifty Third Street, New York, NY 10022)

"...History of Watermarks" / by Bob Akers. -- The Map Collector. -- no. 6 (March 1979), p. 13-18.

Katalog Dawnych Map Rzeczypospolitej Polskiej. W.
Kolekcji, Emeryka Hutten Czapskiego, J.W. Innych
zbiorach / Polska Akademia Nauk, Instytut Geografii
I. Przestrzennego Zagospodarowania, Ossolineum. --
Wrocław : Zakład Narodowy Imienia Ossolińskich
Wydawnictwo Polskiej Akademii Nauk, 1978 (n.p.,
Polska Akademia Nauk, Nowy Świat 72, Warszawa,
Poland)

Map of the country between the frontiers of Arkansas and New Mexico : embracing the section explored in 1849, 50, 51 & 52 by Capt. R.B. Marcy 5th U.S. Infy. under orders from the War Department : [New Mexico detail]. -- [Washington : War Department, 185-] ([New York] : Ackerman lith.). -- Las Cruces, NM : Rio Grande Historical Collections, New Mexico State University Library, 1975 (\$2.00, Rio Grande Historical Collection, University Library, Box 3475, Las Cruces, NM 88003)

Maps and Atlases : a carto-bibliography / by G. Bridges,
S.M. Hinton, J. Mason. -- Swansea : Students Union
Print Room, University College, 1978 (£1.50, Mrs.
Glenys Bridges, Department of Geography, University
College, Swansea)

Victorian planners catalogue of maps and map sources / compiled by P.A.G. Alonso. -- Melbourne : University of Melbourne, Faculty of Architecture, Building and Town & Regional Planning, 1978. -- (Research paper ; 38) (\$2.00, Faculty Research Publications, Faculty of Architecture, Building and Town & Regional Planning, University of Melbourne, Parkville, 3052, Victoria, Aust.)

MCP Pub.

A new publication, MAPS CHARTS AND PRINTS, has recently come to our attention. It is devoted to articles and information on antique, modern maps and "related materials" including a "WANTED" and "FOR SALE" section aimed at the interest of the collector. Monthly, about 4 pages. The current number is vol. II, no. 4 (March 1979). Costs of yearly subscriptions are £1.44 (Great Britain), £3.00 (Overseas, Air Mail), £2.04 (Europe). Advertising is accepted. For further information write, N.M. MacKenzie, Editor, 5 West View, Hampstreet, Ashford Kent, England TN26 2HE.

\$748,000

the sale of the "Mercator Atlas of Europe" for at least \$748,000 (\$680,000 + \$68,000 commission) at Sotheby's on 13 March to an anonymous bidder raises some fascinating points. It had been on the market for at least nine years: it was offered to the Newberry Library in April 1970 for \$630,000 and in March 1974 for \$185,000, but we clearly could not justify its purchase at either figure. Why was it not bought at the lower price? Secondly, despite Sotheby's definite attribution ("Atlas of Europe compiled and annotated by Mercator"), it should be pointed out that the opinion of Dr. A.S. Osley that the handwriting is Mercator's has not been corroborated in print by the views of a trained independent paleographer. Neither have his views been denied, but for an atlas of such monetary value, a second opinion in the literature would seem appropriate. If the atlas finds its way into an institution, which is likely, perhaps further studies will confirm or deny the attribution. Thirdly, the publicity aroused by this momentous sale will no doubt stimulate other map owners to seek their fortunes, resulting in an increased supply of maps and atlases on the market; Skelton's statement of 1972 that "the attics of Europe are by no means cleaned out yet" is certainly still true. Whether the increased supply of material will moderate prices or not remains to be seen.

Facsimile Maps

The following facsimile maps are available for
\$2.00 each from

Association of Canadian Map Libraries
c/o National Map Collection
Public Archives of Canada
Ottawa, ONT
Canada K1A 0N3

No. 20. *A survey of the River Detroit* / Capt. W.F.W. Owen & Assistants. -- London, 1828.

21. *Niagara frontier : plan 2* / R.H. Stotherd
et. al. -- Southampton, 1865.

22. *Map of the township of London* / H.R. Page & Co. -- Toronto, 1878.

23. *Map of proposed canal through the district of Niagara and Gore to form a junction of Lakes Erie and Ontario / Commissioners of Internal Navigation. -- York, 1823.*

24. *Sketch map of Upper Canada* / [Elizabeth Posthuma Simcoe]. -- [S.l., 179-]

25. *Straits of St. Mary and Michilimakinac /
London Magazine.* -- London, 1761.

26. Il Disegno del discoperto della Nova
Franza / Bolognino Zaltieri. -- Venetijs,
1566.

27. *Carte de la Nouvelle France* / H.A. Chate-
lain. -- Paris, 1719.

Calendar

- 17 March
California Map Society, University Center, University of San Francisco. Business meeting. Speaker: W. Michael Mathews, Department of History, "Photographing maps in Archives." Tour of Sutro Library by Richard Dillon, Sutro Librarian (Leonard Magazine, 201 Pershing Drive, Oakland, CA 94611)
- 22-24 March
First National Cartographic Conference, Osmania University, Hyderabad, India. Co-sponsored by the Department of Geography, Osmania University and the Centre for Survey training and Map Production, Survey of India (Shri Mohammed Ahmed, Geography Department, Arts College, Osmania University, Hyderabad 500 007 (AP), India)
- 28-30 March
Canadian Cartographic Association workshop on automated cartography programs, University of Alberta, Edmonton (Christopher Gold, Chairman, CCA Automation Interest Group, Department of Geology, University of Alberta, Edmonton, ALB T6G 2E3)
- 29-30 March
Western Association of Map Libraries spring meeting, U.S. Geological Survey, Menlo Park, CA (Larry Cruse, Map Section C-075p, University Library, University of California, La Jolla, CA 92093)
- 7 April
New York Map Society Meeting, Rare Book Division, New York Public Library. Speaker: Daniel Traitster, Rare Book Division, "Early maps and related materials in the Rare Book Division." (Werner K. Elias, The New York Map Society, P.O. Box 426, Rye, NY 10580)
- 19 April
Michigan Map Society meeting, Museum of Art, University of Michigan, Ann Arbor. Speaker: Lieut. Col. John Montresor, "Memoirs of a military family." (June C. Harris, Center for Afro-American and African Studies, 1100 S. University, Ann Arbor, MI 48109)
- 24 April
Cartography Special Interest Group of the Association of American Geographers meeting, 9-11 p.m., Benjamin Franklin Hotel, Philadelphia. (Joel L. Morrison, Dept. of Geography, University of Wisconsin, Madison, WI 53706)
- 26 April
Chicago Map Society, The Newberry Library. Speaker: Charles O'Connor, Superintendent, Chicago Bureau of Maps and Plats, speaking on "Chicago's Computer Mapping Program." (John Long, Chicago Map Society, 60 W. Walton, Chicago, IL 60610)
- 5 May
New York Map Society meeting, American Museum of Natural History. Speaker: Cary Stewart Sklarén, "Maps of Manhattan: discovery to the Revolution." (Werner K. Elias, The New York Map Society, P.O. Box 426, Rye, NY 10580)
- 5 May
Michigan Map Society - Chicago Map Society meeting, The Newberry Library. Speaker: David Woodward, "Sixteenth-Century Map Printing in Italy and the Franco Novacco Collection of The Newberry Library." (John Long, The Newberry Library, 60 W. Walton, Chicago, IL 60610)
- 22-24 May
Annual Meeting Canadian Cartographic Association, York University, Toronto (Mr. T.P. Wood, Head, Cartographer Section, Ministry of Transportation and Communications, East Building, 1201 Wilson Avenue, Downsview, ONT M3M 1J8)
- 23-24 May
20th Annual General meeting Ontario Institute of Chartered Cartographers, Toronto. Theme: Cartography-the Image of the Discipline." (A.G.M. Chairman, Box 5215, Postal Station "F", Ottawa, ONT)
- 23-26 May
Annual Conference Association of Canadian Map Libraries, Brock University, St. Catharines, ONT. Theme: The 150th Anniversary of the Welland Canal (Alun Hughes, Chairman Organizing Committee, Department of Geography, Brock University, St. Catharines, ONT L2S 3A1)
- 24 May
Chicago Map Society meeting, The Newberry Library. Speaker: Michael Conzen, Department of History, University of Chicago, "Nineteenth Century Mapmakers of Chicago: Alfred T. Andreas." (John Long, The Newberry Library, 60 W. Walton, Chicago, IL 60610)
- 10-15 June
70th Annual Conference Special Libraries Association, Honolulu. (Mary Larsgaard, Geography & Map Division, Chairman-Elect, Map Librarian, Arthur Lakes Library, Colorado School of Mines, Golden, CO 80401)
- 10-17 June
International Conference on Sir Francis Drake & the Famous Voyage, 1577-1580, San Francisco, Los Angeles. Sponsored by the Sir Francis Drake Commission, and the UCLA Center for Medieval and Renaissance Studies. Keynote speaker: Helen M. Wallis, British Library, "The Cartography of Drake's Voyage." (Center for Medieval and Renaissance Studies, University of California, 405 Hilgard Avenue, Los Angeles 90024)
- 21-23 September
Eastern National Antiquarian Book Fair, Fairgrounds, Gaithersburg, MD. (Bellman Promotions, Inc., Central Center, Exhibition Coordinator, P.O. Box 1113, Columbia, MD 21044)
- 24-28 September
3rd International Reunion for the History of Nautical Science and Hydrography, National Maritime Museum, Greenwich. Theme: 500 years of Nautical Science 1400-1900 (The Conference Officer, 3rd Intl. Reunion for the History of Nautical Science and Hydrography, National Maritime Museum, Greenwich, London, SE10 9NF)

The Hermon Dunlap Smith Center for the History of Cartography

Director: David Woodward

The Center was founded in 1972 at The Newberry Library to promote the study of the history of cartography through research projects, fellowships, courses of instruction, and publications. Further information is available on request.

Mapline is published four times a year in March, June, September, and December. Annual subscription: \$4.00. Back issues (as available) \$1.00 each. Please address all correspondence to the editor at The Newberry Library, 60 West Walton Street, Chicago IL 60610.